

RARITAN VALLEY COMMUNITY COLLEGE

ACADEMIC COURSE OUTLINE

CSIT 125 - Programming for Business Majors

I. Basic Course Information

A. Course Number and Title: **CSIT 125- Programming for Business Majors**

B. New or Modified Course: Modified

C. Date of Proposal: Semester: **Fall** Year: **2024**

D. **Effective Term: Fall 2025**

E. Sponsoring Department: Mathematics and Computer Science

F. Semester Credit Hours: **1**

G. Weekly Contact Hours: **2**

Lecture: **0**

Lab: **2**

Out of class student work per week: **1**

H. ☐ Prerequisite (s):

☒ Corequisite (s): **COMP 102 Computer Literacy, or equivalent experience**

I. Additional Fees: None

II. Catalog Description

Corequisite: COMP 102 Computer Literacy, or equivalent experience. This course fulfills the computer-programming requirement for business majors intending to transfer to Rutgers University. In this course students learn concepts of programming using a high level programming language such as Java or Javascript. Topics covered include algorithms, flowcharts, pseudocodes, control structures, loops, functions, subprograms, and arrays. Laboratory exercises are emphasized.

III. Statement of Course Need

- A. This course is needed in conjunction with COMP 102, Computer Literacy, for students majoring in an Option in Business Administration and intending to transfer to Rutgers.
- B. This course has a weekly lab component. The lab is essential for providing students hands on experience to write programs to using Java or Javascript.
- C. This course is intended for students to take in addition to COMP 102 Computer Literacy to meet the 4 credit Computer Applications requirement for Rutgers University Business School, otherwise the course is not intended to transfer.

IV. Place of Course in College Curriculum

- A. Free Elective
- B. The course meets a program requirement for:
 - a. **Management Information Systems Option In Business Administration, Associate Of Science**
- C. This course is listed in these programs as a course needed for those intending to transfer to Rutgers University:
 - a. **Supply Chain Management Option in Business Administration, Associate Of Science**
 - b. **Marketing Option in Business Administration, Associate Of Science**
 - c. **International Business Option in Business Administration, Associate Of Science**
 - d. **General Business Option in Business Administration, Associate Of Science**
- D. To see course transferability: a) for New Jersey schools, go to the NJ Transfer website, www.njtransfer.org; b) for all other colleges and universities, go to the individual websites.

V. Outline of Course Content

- A. Introduction to Structured Programming and Problem Solving
 - 1. Structure Charts
 - 2. Flow Charts
 - 3. Pseudocode
 - 4. Algorithms
- B. Memory Use
 - 1. Variables
 - 2. Arithmetic Operations

- C. Basic I/O
 - 1. Displaying Data
 - 2. Getting Data from Users
 - 3. Formatting Output for Reports
- D. Control Structures
 - 1. If then else and else if statements
 - 2. Case or switch statements
- E. Modularizing Programs
 - 1. Using and creating methods
- F. Loops
 - 1. While loops
 - 2. For loops
 - 3. Do-while loops
- G. Arrays
 - 1. Declaring, allocating and using Arrays
 - 2. Sorting Arrays using Bubble Sort

VI. A. Course Learning Outcomes:

At the completion of the course, students will be able to:

- 1. Apply design and coding techniques to create computer programs that solve a business need (GE 4)
- 2. Analyze business needs
- 3. Design a computer program using structured programming techniques to meet a business need

B. Assessment Instruments

- 1. Computer Programs--In-Class Labs
- 2. Exam
- 3. Other-Homework

VII. Grade Determinants

- A. Computer Programs--In-Class Labs

- B. Exam
- C. Other—Homework

Modes of Teaching and Learning:

- A. Lecture/Discussion--Lecture with demo of programs which meet business needs
- B. Laboratory--Lab time to analyze business needs and to write computer programs independently

VIII. Texts and Materials

Suggested Textbook—Gaddis, Tony, Starting Out with Java from Control Structures through Objects, most recent edition, Pearson-Addison Wesley

(Please note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC Bookstore is the sole resource for the most up-to-date information about textbooks)

IX. Resources

- A. Computer Lab for classroom instructions and exercises
- B. The Java Development Kit and an Integrated Development Environment such as NetBeans, TextPad, or Notepad++
- C. Web Browser software with Java Script enabled

X. Check One: ☐ Honors Course ☐ Honors Options ☒ N/A